



SUBSTITUTE SPECIFICATION

[0001] DIGITAL CAMERA SYSTEM HAVING LENS TO BE REPLACED

[0002] This application claims benefits of Japanese Application No. 2003-135005 filed in Japan on May 13, 2003, the contents of which are incorporated by this reference.

[0003] BACKGROUND OF THE INVENTION

[0004] FIELD OF THE INVENTION

[0005] The present invention relates to a lens-interchangeable digital camera system and a digital camera, interchangeable lens and camera body thereof.

[0006] RELATED ART STATEMENT

[0007] A conventional digital camera includes an optical low-pass filter (called optical LPF hereinafter), containing crystal or the like having a double refraction characteristic, in the front of the surface of an image pickup element in order to reduce false color (such as moiré) of a high frequency component of a shot image. A single lens reflex digital camera system has been provided in which a lens (lens barrel) is interchangeable with respect to the camera body. Image pickup elements having different numbers of pixels, that is, having different pixel pitches are built in multiple bodies of the lens-interchangeable digital camera system. Furthermore, multiple kinds of interchangeable lens can be attached to the body.

[0008] An optical LPF having thickness corresponding to the pixel pitches is provided in the front of the surface of the image pickup element having different pixel pitches as described above in the single lens reflex camera body.